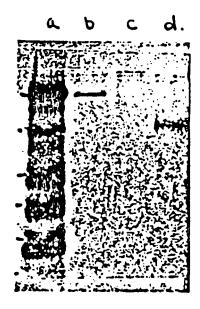


F16. 1

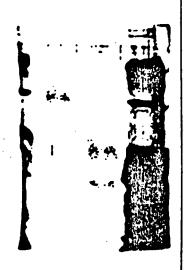
b. a. ⊖

....

FIG 2



abcd.



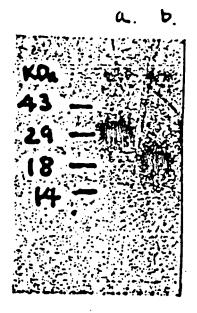
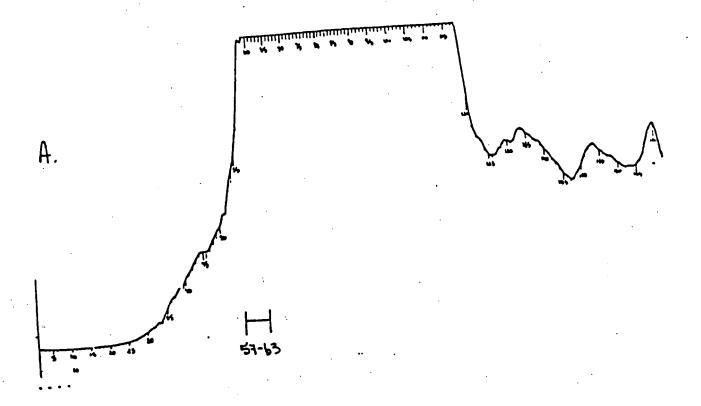


Figure 6



B.

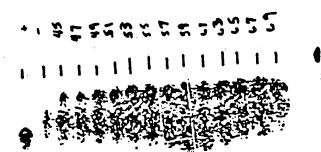
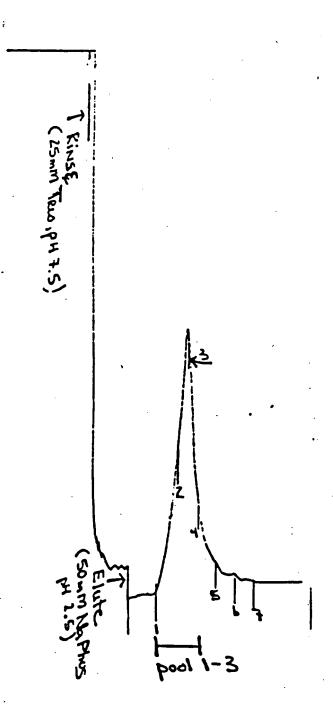


Figure 7



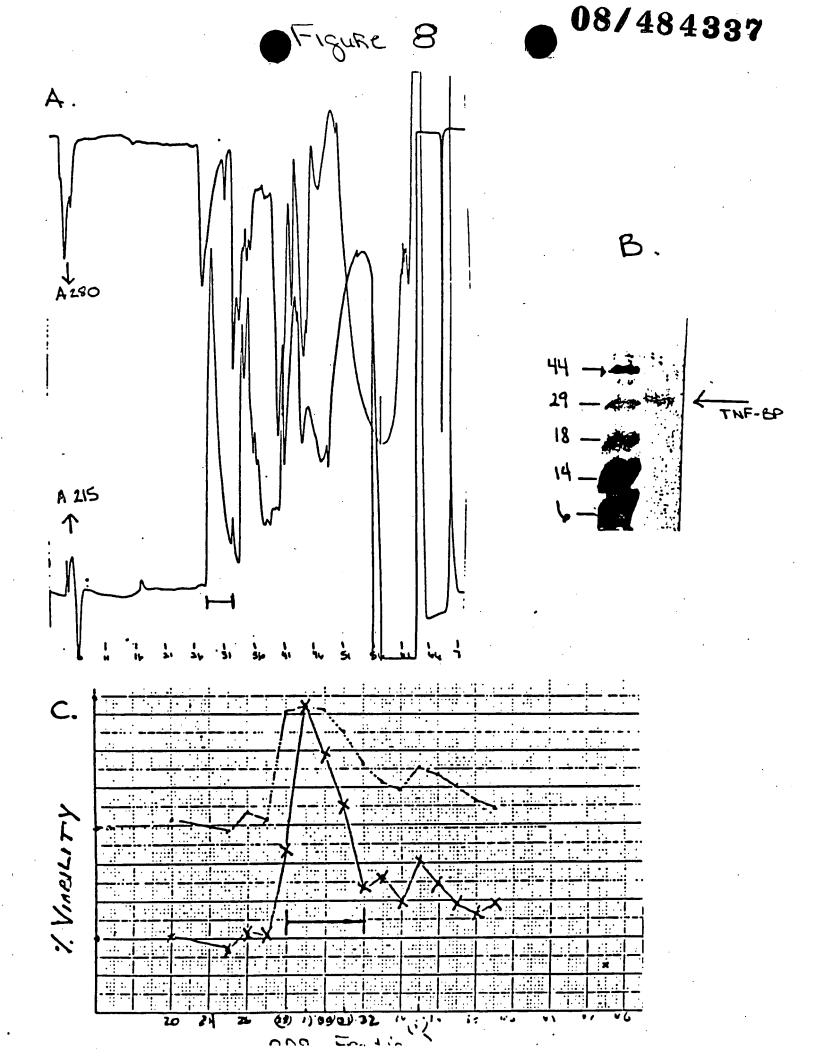
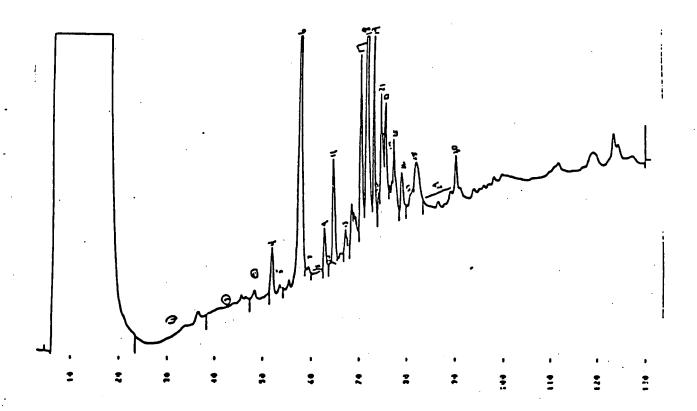
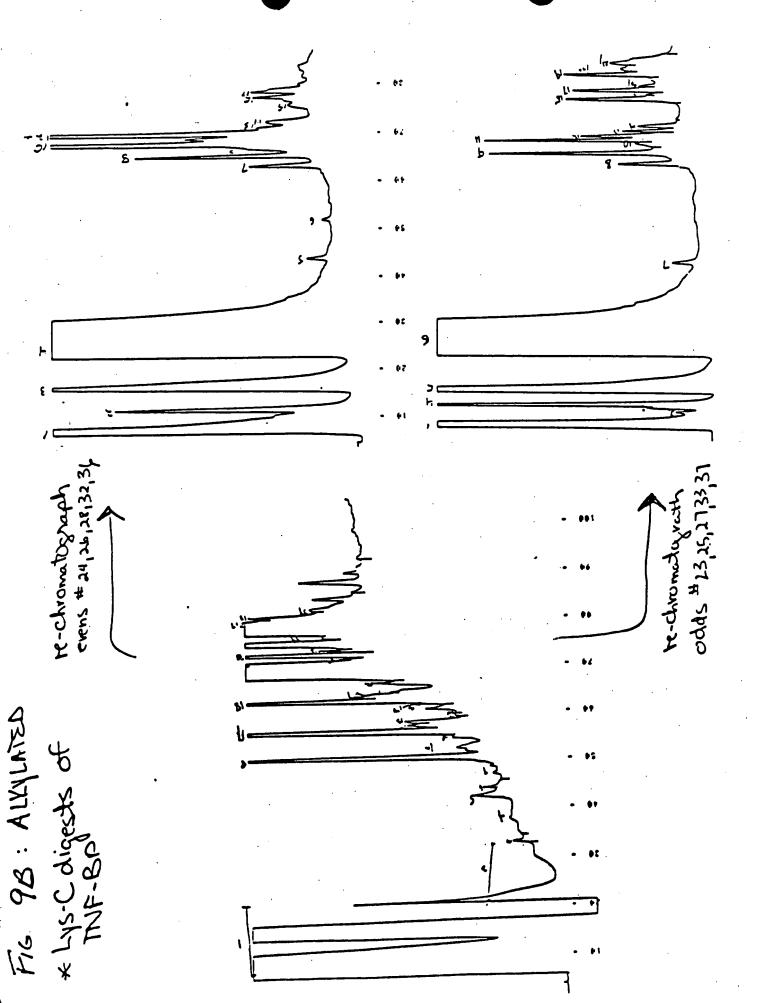
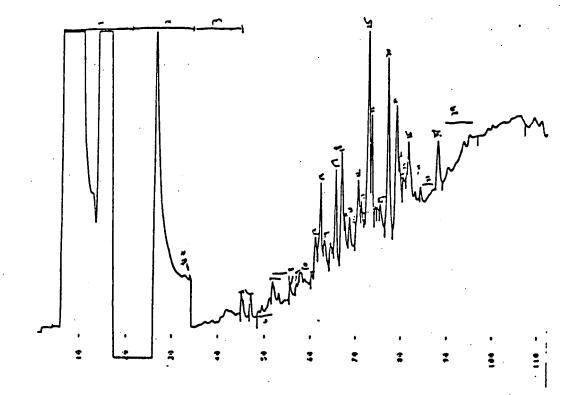


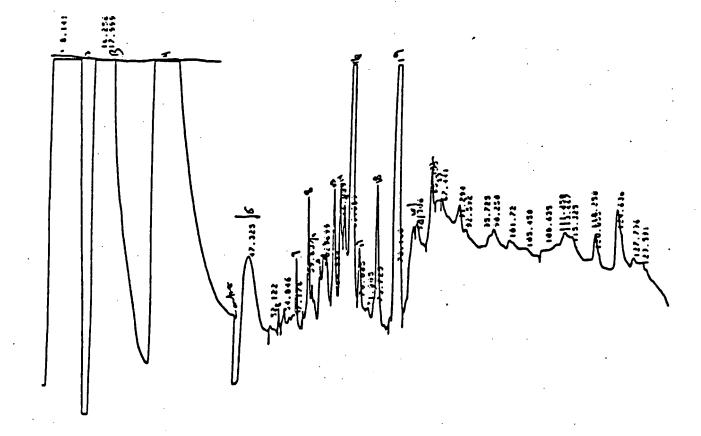
FIG. 9A



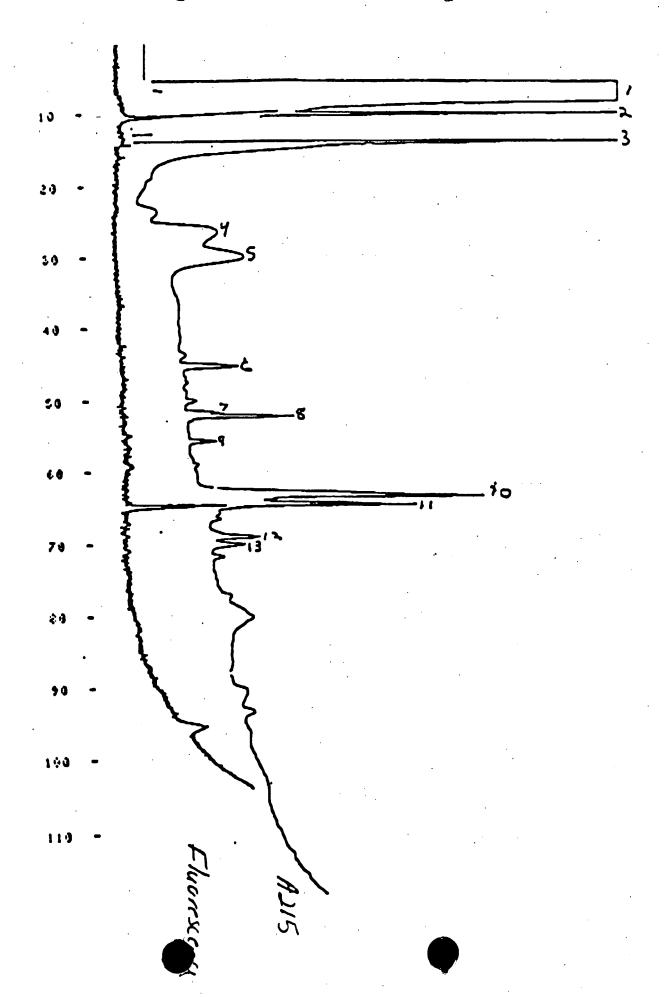


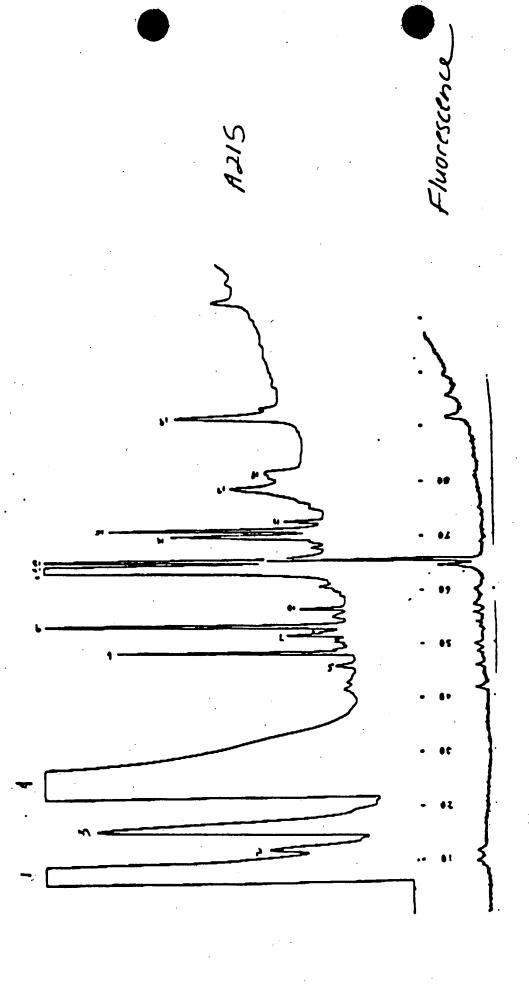
F16. 10





#2





igure 12



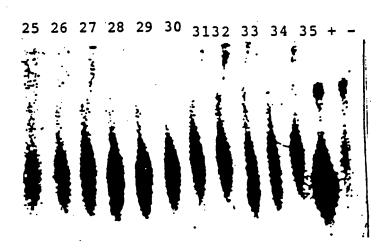
CATRICTION GOTCOACTET AGAGGATETG GGUCCTACTA GETTTGAGTT GAGGGAACAN AAATGAALAC 100 90 110 120 150 ACAGGACIAC TAGAGAACAA TTAAGCATCA GATTGTATGC CCCAACTGTC TAAGTTTCAA GGAAGAACTC 170 180 190 150 160 TAAACTTAGT GAGTUGCUTG UCCTUGUUCG AATGTTTCAC TGAGUAAGGA CTTGAUCCAB GGAAGTTTTA GATCTGCTAC CCCTAAGCTT CCCATCCCTC CCTCTCTGA TGGTGTCTCC TCTATCTGAT TCTTCCCCAG 298 307 316 325 234 GTG CTC CTG GAG CTG TTG GTG GGA ATA TAC CCC TCA GGG GTT ATT GGA CTG GTC Val Leu Leu Glu Leu Leu Val Gly Ile Tyr Pro Ser Gly Val Ile Gly Leu Val CCT CAL CTA GUG GAC AGG GAG ANG AGA GAT AGT GTG TGT CCC CAA GCA ANA TAT Pro His Lru Gly Asp Arg Glu Lys Arg Asp Ser Val Cys Pro Gln Gly Lys Tyr 406 415 ATC CAC CCT CAA AAT AAT TCG ATT TGC TGT ACT AAG TGC CAL AAA G GTAGGGGCAA Ile His Pro Gin Asn Asn Ser Ile Cys Cys Thr Lys Cys His Lys Ala 474 484 GTUGAAACGG TGAATGCCCT CAGGTCTGGG GTUCTGCTTC TTTCTCTGCT TCTTCCAGTT GTTCTTCCT : AACTITGCTG TCTCTCCTGG GUTGGGATTT TCTCCCTCCC TCCTCTCTA GAGACTTCAG GGAATCGGCC 624 CTUGETGTTG TCCCTAGCAT UGGGCCCCTT CCTTGTGTTC TCACCCGCAG CCTAACTCTG CGGCCCCATT 673 682 691 CA CA GRA ACC TAC TTO TAC ANT GAC TUT CCA GGC CLG GGG CAG GAT ACG GAR GIV The Tyr Lau Tyr Asn Asp Cys Pro Giy Pro Giy Gin Asp The Asp 756 THE AGE GAG TET GAG AGE GET TER ATE GET TEA GAA AAC CAE ETE AGA CAE Gys Arg Glu Cys Glu Ser Gly Ser Phe Thr Ala Ser Glu Ash His Leu Arg His 763 712 781 797 807 THE CTE AGE THE TEE AMA THE EGA AMA BETGABTETE CACAGGEAGE AGAGTEAGGE Cys Leu Ser Cys Ser Lys Cys Arg Lys GRETCTTUAG TGGTGTGTGG GTGCCTGTCT ATGTGCAGGC TGGTGGGTGT GGGCAGUAAG BTGTGTGTT 907 917 421 TGITUGRACA CTG:ATGGAT GTGAGTGTGT ATTACAGAGA CACACACTTA GGCGTATGTC AGIAAGGGGA 977 98/ 997 1007 TOCHGUDAGA GGAUGA FOLA GHACTCATAC ECCATETTET CUECTEACCA GAA ATG GLIT CAG Glu MET GIV Gla 1025

GTG GMI AIC V11 GIII 11e

F16. 13

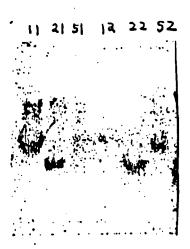


Lane 1 ia a positive control. Purified TNF-BP complexed with 125I-TNF. Lane 2-5 are protein from the 24, 48, 72, and 96 hour incubations with PMA/PHA that did not bind to the TNF-affinity column. Lane 6-9 are the material from the same incubations that did bind to the TNF-affinity column.



Fractions 27, 28 and 29, 33 and 34 show TNF binding activity. + is as lane 1 of figure 15. - is 125I-TNF alone.

NO	PMA/	PuH		
PMAYPHA	1 hr	17/2		
			_	9.49 Kb 7.46
•		•	•	4.4
		وأخذو	***************************************	<b>a</b> .3
••	•		-	1.3



Asp Ser Val Cys Pro Gin Giy Lys Tyr lie His Pro Gin Asn Asn Ser lie Cys Cys Thr Lys Cys His Lys Giy Thr Tyr Lou Tyr Ann Asp Cys Pro Gly Pro Gly Gin Asp Thr Asp Cys Arg Giu Cys Giu Ser Gly Ser Pne Thr Ala Ser Glu Asn His Leu Arg His Cys Leu Sor Cys Ser Lys Cys Arg Lys Giu Met Gly Gin Val Giu lie Ser Ser Cys Thr Val Asp Arg Aso Thr Val Cys Gly Cys Arg Lys Asn Gin Tyr Arg Mis Tyr Trp Ser Glu Asn Leu Pne Gin Cys Phe Asn Cys Ser Leu Cys Leu Asn Gly Thr Val His Leu Ser Cys Gin Gill Lys Gin Asn Thr Val Cys Thr Cys His Ala Gly Pne Pne Leu Arg Glu Asn 31u Cys Val Ser Cys Ser Asn Cys Lys Lys Ser Leu Giu Cys Thr Lys Leu Cys Leu Pro Gin Ile Glu Ash Cys Ser Leu Cys Lys Thr Lys Leu Cys Leu Pro Gin Ile Glu Ash Cys Ser Lys Lys Ser Leu Cys Thr Lys Lou Cys Leu Pro Gin Ile Glu Ash

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				•			•					,÷		296	•		365	
		•	•													CCC		
												HRP	) Ser	. A91	Cys	fro	Gin	
		214	7		323	1		332	:		341			350	)		359	
GGA	AAA	TAT	ATC	CAC	CCT	CAA	AAT	TAAT	TCG	ATT	TGC	TGT	ACC	AAG	TGC	CAC	AAA	
51 y	/ Lys	Туг	· Ile	. Hia	Pro	Gln	Asn	) Asn	Ser	Ile	Cys	Cys	Thr	. Lys	CAP	HIR	Lys	
		300	i .		377			386	1		395			404			413	
GGA	ACC	TAC	TIG	TAC	AAT	GAC	TGT	CCA	GGC	CCG	338	CAG	GAT	ACG	GAC	TEC	AGG	
Gly	Inc	Tyr	. Fan	Tyr	Asn	Asp	Cys	Pro	Gly	Pro	Gly	Gln	Asp	Thr	Asp	cys	Arg	
		422			431			44Û			,449			458			467	
GAG	TGT	GAG	AGC	GGC	TCC	TTC	ACC	GCT	TCA	GAA	AAC	CAC	CTC	AGA	CAC	TGC	CTC	
914	Cys	G1.u	ser	PIA	ser	Phe	Thr	"Al-	Ser	'Gl'u	Asn	His	Leu	Arg	"Hıs	Cys	Leu	
		476			485	•		444			503			512			521	
AGC	TGC	TCC	AAA	TGC	CGA	AAG	GAA	ATG	GGT	CAG	GTG	GAG	ATC	TCT	TCT	TGC	ACA	
Ser	Cys	Ser	Lys	Cys	Arg	Lys	Glu	MET	<b>GIA</b>	Glu	Val	Glu	lle	Ser	Ser	Cys	Thr	
		530			539			548		• •	557			566			575	
GTG	GAC	CGG	GAC	ACC	GTG	TGT	GGC	TGC	AGG	AAG	AAC	CAG	TAC	CGG	CAT	TAT	TGG	
Agi	Asp	Arg	Asp	ihr	Val	Суэ	61 y	Cys	Arg	Lys	Asn	Gln	Tyr	Arg	His	Tyr	Trp	
		584			593			602			611			620			629	
AGT	GAA	AAC	CTT	TTC	CAG	TGC	TTC	AAT	TGC	AGC	CTC	TGC	CTC	AAT	GGG	ACC	GTG	
<b></b>	,		LEU	rne		Cys	rne		LAS	ser	Leu	Cys	Leu	Asn	Gly	Thr	V=1	
		-38			647			656			665			674			683	
CAC His	CTC	TCC Sec	TGC	CAG	GAG	AAA	CAG	AAC	ACC	STG	TGC	ACC	TGC	CAT	GCA	GGT	TTC	
			-,-			<b>-</b> 73	0111		inr	ATI	Cys	Inr	Lys	HIZ	Ala	61y	Fhe	
		692			701			710			719			728			737	
TTT	CTA	AGA	GAA	AAC	GAG	TGT	GTC	TCC	TGT	AGT	AAC	TGT	AAG	AAA	AGC	CTG	GAB	
						LYB	Adī		Lys	ser !	Asn	LYS	LYS	LYS	241	Lau	Glu	
· 		746			755			764									•	
		AAG												٠.		· .		
CYS	۱۱۱۳ سد	Lys	rau	-ys	Leu	7 T D	טזט	116	aıu	ผลบไ			٠.		•	٠	. •	
	7 -			_														

Figure 20.

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10				<b>.</b>
BATCACTEGE ACCAGE	CGT GATCTCTATG	CCCGAGTCTC AACCCT	TCAAC TGTCACCCCA	A GGCACTTEG
		•		
	•			
80 °	90 100	110	120 130	140
GACGTCCTGG ACAGACCG	AG TCCCGGGAAG I	CCCCAGCACT GCCGCT	FGCCA CACTGCCCTG A	GCCCAAATG
G.1.661.112				
150 16	60 . <b>17</b> .	1 180	189	198
GGGGAGTGAG AGGCCATA	_ <		- GTG - CTG - CTG	CTG
GGGGAGTGAG AGGCLATA	ME.	T Gly Leu Ser Thr	- Val Pro Asp Leu	Leu
207	216 2:	25 234	243	252
		•		<del></del>
CTG CCG CTG GTG CTC Leu Pro Leu Val Leu	CTG GAG CTG T Leu Glu Leu L	eu Val Gly Ile Ty	r Pro Ser Gly Val	Ile
•		79 288	297	306
261				
GGA CTG GTC CCT CAC Gly Leu Val Pro His	CTA GGG GAC A	GG GAG AAG AGA GA	AT AGT GTG TGT CCC	CAA Calb
GIY Leu vai Pro His	Ced Gly Hab H	ing old the und we	sp ser var cys c	•
315	324 3	342	351	360
GGA AAA TAT ATC CAC	CCT CAA AAT A	AT TO ATT TOO TO	ST ACC AAG TGC CAC	AAA
Gly Lys Tyr Ile His	Pro Gln Asn A	isn Ser Ile Cys Cy	ys Thr Lys Cys His	Lys
369	378 3	87 396	405	414
GGA ACC TAC TTG TAC	AAT GAC TOT C	CA GGC CCG GGG CA	AG GAT ACG GAC TGC	AGG
Gly Thr Tyr Leu Tyr	Asn Asp Cys P	ro Gly Pro Gly Gl	In Asp Thr Asp Cys	Arg
423	432 4	41 450	459	468
GAG TGT GAG AGC GGC	TCC TTC ACC 6		OC CTC AGA CAC TGC	CTC
Glu Cys Glu Ser Gly	Ser Phe Thr A	ila Ser Glu Asn Hi	is Leu Arg His Cys	Leu
477	486 4	95 504	513	522
		·		3 353
AGC TGC TCC AAA TGC Ser Cys Ser Lys Cys	CGA AAG GAA A Ara Lvs Glu M	NTG GGT CAG GIG GA NET Gly Gln Val GI	lu Ile Ser Ser Cyt	Thr
	•		_	576
531		549 558	567 	
GTG GAC CGG GAC ACC	GTG TGT GGC T	GC AGG AAG AAC CA	AG TAC CGG CAT TAT	r TGG
Val Asp Arg Asp Thr	val tys bly t			
585	594 6	612	621	630
AGT GAA AAC CTT TTC	CAG TGC TTC A	AT TGC AGC CTC TO	GC CTC AAT GGG ACC	GTG
Ser Glu Asn Leu Phe	Gln Cys Phe A	isn Cys Ser Leu C	ys Leu Asn Gly Thi	- Vai
639	648 6	57 666	675	684
CAC CTC TCC TGC CAG	GAG AAA CAG A	AC ACC GTG TGC AC	CC TGC CAT GCA GG	TTC
His Leu Ser Cys Gln	Glu Lys Gln A	asn Thr Val Cys Ti	hr Cys His Ala Gly	y Phe

		693			702			711			720			729			738
															<u> </u>	===	<del></del>
TTT	CTA Leu	AGA	GAA	AAC Asn	GAG Glu	TGT	GTC Val	TCC Ser	TGT	AGT Ser	AAC Asn	Cys	AAG Lys	Lys	Ser	Leu	Glu
riie	Leu	_				_,_		765			774	·		783			792
		747			756								- 		===	===	
TGC	ACG Thr	AAG Lys	TTG	TGC Cys	CTA	CCC Pro	CAG Gln	ATT Ile	GAG Glü	AAT	GTT Val	Lys	GLY	Thr	Glu	Asp	Ser
-•		801		. '	810			819			828			837			846
<u> </u>	ACC		GTG			<u> </u>	CTG	GTC	ATT	TTC	TTT	GGT	CTT	TGC	CTT	TTA	TCC
Gly	Thr	Thr	Val	Leu	Leu	Pro	Leu	Val	Ile	Phe	Phæ	Gly	Leu	Cys	Leu	Leu	Ser
		855			864			873			882			891			900
CTC	CTC	TTC	ATT	GGT	TTA	ATG	TAT	CGC	TAC	CAA	CGG	TGG	AAG	TCC	AAG	CTC	TAC
Leu	Leu	Phe	Ile	Gly	Leu	MET	Tyr	Arg	Tyr	Gln	Arg	Trp	Lys	Ser	Lys	Leu	Tyr
		909			918			927			936			945			954
TCC	ATT	GTT	TGT	GGG	AAA	TCG	ACA	CCT	GAA	AAA	GAG	GGG	GAG	CTT	GAA	GGA	ACT
Ser	Ile	Val	Cys	Gly	Lys	Ser	Thr	Pro	Glu	Lys	Glu	Gly	Glu	Leu	GIU	GIA	inr
•		963	•		972			981			990			999			1008
ACT Thr	ACT	AAG	CCC	CTG	GCC	CCA	AAC	CCA	AGC	TTC	AGT	CCC	ACT	CCA	GGC	TTC	ACC
The	חחו	LVS	PF0	1 12413	HIB	Fro	HAU	Fro	SEL	FILE	361				<b>U.</b> 7	1 114	
															·		
	;	1017		:	1026		;	1035			1044			1053			1062
<del></del>	ACC	1017 CTG	GGC	TTC	1026 AGT	ccc	GTG	1035 CCC	AGT	TCC	1044 ACC	TTC	ACC	1053 TCC	AGC	TCC	1062 ACC
<del></del>	ACC Thr	CTG Leu	GGC	TTC Phe	AGT Ser	ccc	GTG Val	035 CCC Pro	AGT	TCC Ser	ACC Thr	TTC	ACC Thr	TCC Ser	AGC Ser	TCC Ser	ACC Thr
CCC Pro	ACC Thr	1017 CTG Leu 1071	GGC Gly	TTC Phe	AGT Ser 1080	CCC Pro	GTG Val	CCC Pro 1089	AGT Ser	TCC Ser	ACC Thr 1098	TTC Phe	ACC Thr	TCC Ser 1107	AGC Ser	TCC	ACC Thr
CCC Pro	ACC Thr	CTG Leu 1071	GGC Gly GGT	TTC Phe	AGT Ser 1080	CCC Pro	GTG Val	035 CCC Pro 1089	AGT Ser	TCC Ser	ACC Thr 1098	TTC Phe	ACC Thr	TCC Ser 1107 GAG	AGC Ser	TCC Ser	ACC Thr
CCC Pro	ACC Thr	CTG Leu 1071 CCC Pro	GGC Gly GGT	TTC Phe GAC Asp	AGT Ser 1080 TGT Cys	CCC Pro	GTG Val AAC Asn	035 CCC Pro 1089	AGT Ser	TCC Ser GCT Ala	ACC Thr 1098	TTC Phe	ACC Thr AGA Arg	TCC Ser 1107 GAG	AGC Ser	TCC Ser GCA Ala	ACC Thr 1116
CCC Pro	ACC Thr ACC Thr	1017 CTG Leu 1071 CCC Pro	GGC Gly GGT GGT	TTC Phe GAC Asp	AGT Ser 1080 TGT Cys	CCC Pro	GTG Val AAC Asn	1035 CCC Pro 1089 TTT Phe	AGT Ser GCG Ala	TCC Ser GCT Ala	1044 ACC Thr 1098 CCC Pro	TTC Phe CGC Arg	ACC Thr AGA Arg	TCC Ser 1107 GAG Glu	AGC Ser GTG Val	TCC Ser GCA Ala	ACC Thr 1116 CCA Pro
TAT Tyr	ACC Thr	1017 CTG Leu 1071 CCC Pro 1125 CAG	GGC Gly GGT Gly	TTC Phe GAC Asp	1026 AGT Ser 1080 TGT Cys 1134	CCC Pro	GTG Val AAC Asn	1035 CCC Pro 1089 TTT Phe	AGT Ser GCG Ala	TCC Ser GCT Ala	1044 ACC Thr 1098 CCC Pro 1152 GCC	TTC Phe CGC Arg	ACC Thr AGA Arg	TCC Ser 1107 GAG Glu 1161 TCC	AGC Ser GTG Val	TCC Ser GCA Ala	ACC Thr 1116 CCA Pro
TAT Tyr	ACC The TAT Tyr	1017 CTG Leu 1071 CCC Pro 1125 CAG	GGC Gly GGT Gly	TTC Phe GAC Asp GCT Ala	1026 AGT Ser 1080 TGT Cys 1134	CCC Pro	AAC Asn	1035 CCC Pro 1089 TTT Phe	GCG Ala GCG Ala	TCC Ser GCT Ala ACA Thr	1044 ACC Thr 1098 CCC Pro 1152 GCC	TTC Phe CGC Arg	ACC Thr AGA Arg	TCC Ser 1107 GAG Glu 1161 TCC	GTG Val	TCC Ser GCA Ala	ACC Thr 1116 CCA Pro 1170
TAT Tyr	ACC Thr TAT Tyr	1017 CTG Leu 1071 CCC Pro 1125 CAG G1n 1179	GGC Gly GGT Gly	TTC Phe GAC Asp	1026 AGT Ser 1080 TGT Cys 1134 GAC Asp 1188	CCC Pro	GTG Val AAC Asn ATC Ile	CCC Pro 1089 TTT Phe 1143 CTT Leu	GCG Ala GCG Ala	GCT Ala ACA Thr	ACC Thr 1098 CCC Pro 1152 GCC Ala 1206	TTC Phe CGC Arg	AGA AGA Arg	TCC Ser 1107 GAG Glu 1161 TCC Ser 1215	GTG Val	GCA Ala	ACC Thr 1116 CCA Pro 1170 ATC Ile 1224 GAC
TAT Tyr	ACC Thr TAT Tyr	1017 CTG Leu 1071 CCC Pro 1125 CAG G1n 1179	GGC Gly GGT Gly	TTC Phe GAC Asp	AGD AGT Ser 1080 TGT Cys 1134 GAC Asp	CCC Pro	GTG Val AAC Asn ATC Ile	CCC Pro 1089 TTT Phe 1143 CTT Leu	GCG Ala GCG Ala	GCT Ala	ACC Thr 1098 CCC Pro 1152 GCC Ala 1206	TTC Phe CGC Arg	AGA AGA Arg	TCC Ser 1107 GAG Glu 1161 TCC Ser 1215	GTG Val	GCA Ala	ACC Thr 1116 CCA Pro 1170 ATC Ile
TAT Tyr	ACC Thr  TAT Tyr  AAC Asn	1017 CTG Leu 1071 CCC Pro 1125 CAG G1n 1179	GGC Gly GGT Gly CTT Leu	GAC Asp GCT Ala	AGD AGT Ser 1080 TGT Cys 1134 GAC Asp	CCC Pro	AAC Asn ATC Ile	CCC Pro 1089 TTT Phe 1143 CTT Leu	GCG Ala GCG Ala	GCC Ala	ACC Thr 1098 CCC Pro 1152 GCC Ala 1206	TTC Phe CGC Arg CTC Leu	AGA AGA Arg	TCC Ser 1107 GAG Glu 1161 TCC Ser 1215	GAC Asp	GCA Ala	ACC Thr 1116 CCA Pro 1170 ATC Ile 1224 GAC
TAT Tyr	ACC Thr  ACC Thr  TAT Tyr  AAC Asn	1017 CTG Leu 1071 CCC Pro 1125 CAG G1n 1179 CCC Pro	GGC G1y  GGT G1y  GGG G1y  CTT Leu	GAC Asp GCT Ala	AGT Ser 1080 TGT Cys 1134 GAC Asp AGG Lys ACG	CCC Pro	GTG Val AAC Asn ATC Ile GAG Glu	CCC Pro 1089 TTT Phe 1143 CTT Leu 1197 GAC Asp	GCG Ala GCG Ala AGC Ser	GCT Ala ACA Thr	1044 ACC Thr 1098 CCC Pro 1152 GCC Ala 1206 CAC His	TTC Phe CGC Arg CTC Leu	ACC Thr AGA Arg GCC Ala	TCC Ser 1107 GAG Glu 1161 TCC Ser 1215 CAG Gln 1269	GTG Val GAC Asp	GCA Ala CCC Pro	1062 ACC Thr 1116 CCA Pro 1170 ATC Ile 1224 GAC Asp 1278
TAT Tyr	ACC Thr  ACC Thr  TAT Tyr  AAC Asn	1017 CTG Leu 1071 CCC Pro 1125 CAG G1n 1179 CCC Pro	GGC G1y  GGT G1y  GGG G1y  CTT Leu	GAC Asp GCT Ala	AGT Ser 1080 TGT Cys 1134 GAC Asp AGG Lys ACG	CCC Pro	GTG Val AAC Asn ATC Ile GAG Glu	CCC Pro 1089 TTT Phe 1143 CTT Leu 1197 GAC Asp	GCG Ala GCG Ala AGC Ser	GCT Ala ACA Thr	1044 ACC Thr 1098 CCC Pro 1152 GCC Ala 1206 CAC His	TTC Phe CGC Arg CTC Leu	ACC Thr AGA Arg GCC Ala	TCC Ser 1107 GAG Glu 1161 TCC Ser 1215 CAG Gln 1269 Pro	GAC Asp	GCA Ala CCC Pro	1062 ACC Thr 1116 CCA Pro 1170 ATC Ile 1224 GAC Asp 1278 CGC Arg
TAT Tyr CCC Pro	ACC Thr TAT Tyr AAC ABn	1017 CTG Leu 1071 CCC Pro 1125 CAG G1n 1179 CCC Pro 1233 GAC Asp	GGC Gly GGT Gly CTT Leu	GAC Asp GCT Ala GCG Ala	AGT Ser 1080 TGT Cys 1134 GAC Asp 1188 AGG Lys 1242 ACG Thr 1296	CCC Pro	GTG Val AAC ASD ATC Ile GAG Glu	CCC Pro 1089 TTT Phe 1143 CTT Leu 1197 GAC Asp 1251 GCC A1a	GCG Ala GCG Ala AGC Ser	GCC Ala	1044 ACC Thr 1098 CCC Pro 1152 GCC Ala 1206 His 1260 GAG GIU	CGC Arg	ACC Thr  AGA Arg  GCC Ala  CCA Pro	TCC Ser 1107 GAG Glu 1161 TCC Ser 1215 CAG Gln 1269 CCC Pro 1323	GTG Val GAC Asp	GCA Ala CCC Pro	1062 ACC Thr 1116 CCA Pro 1170 ATC Ile 1224 GAC Asp 1278 CGC Arg 1332
TAT Tyr CCC Pro	ACC Thr ACC Thr TAT Tyr AAC Asn	1017 CTG Leu 1071 CCC Pro 1125 CAG G1n 1179 CCC Pro 1233 GAC Asp	GGC Gly GGT Gly CTT Leu CCC Pro	GAC Asp GCT Ala GCG Ala	GAC ASP 1242 ACG Thr	CCC Pro	GTG Val AAC Asn ATC Ile GAG Glu TAC Tyr	CCC Pro 1089 TTT Phe 1143 CTT Leu 1197 GAC Asp 1251 GCC Ala	GCG Ala GCG Ala GCG Ala GCG CTG	GCC Ala	1044 ACC Thr 1098 CCC Pro 1152 GCC Ala 1206 CAC His 1260 GAG GIU	CGC Arg	ACC Thr  AGA Arg  GCC Ala  CCA Pro	TCC Ser 1107 GAG Glu 1161 TCC Ser 1215 CAG Gln 1269 TCC Pro 1323 ATC	GAC Asp	GCA Ala CCC Pro	1062 ACC Thr 1116 CCA Pro 1170 ATC Ile 1224 GAC Asp 1278 CGC Arg

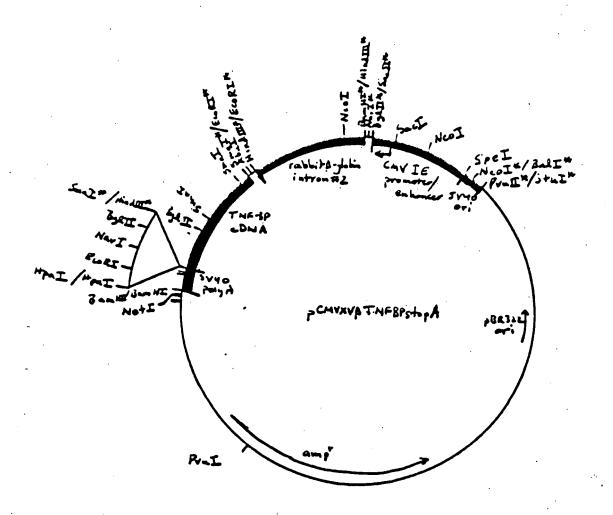
134	1 13	50 1	359	1368	1377	1386
GAG CTG CA	G AAC GGG C	GC TGC CTG	CGC GAG GCG Arg Glu Ala	CAA TAC AGO	ATG CTG GG	G ACC
13,9	5 14	04 1	413	1422	1431	1440
				CTG GAG CTG		
irp arg ar	,			Leu Glu Lei 1476	, Leu Gly Ar 1485	-g val 1494
				GAC ATC GAC		
				Asp Ile Glu		
150				1530 	1546	
			CCC AGT CTT Pro Ser Leu		A GGCTGCGCC	CTGCGGGCAG
1566	1576	1586	1596	1606	1616	1626
CTCTAAGGAC	CGTCCTGCGA	GATCGCCTTC	CAACCCCACT	TTTTTCTGGA	AAGGAGGGET	CCTGCAGGGG
1636	1646	. 1656	1444	1474	1404	1704
				1676 CGATGTACAT	1686	1696
				CONTOTACAT	A001111010	
1706	1716	1726	1736	1746	1756	1766
GCGCCGCCGA	CAGTCAGCGC	TGTGCGCGCG	GAGAGAGGTG	CGCCGTGGGC	TCAAGAGCCT	GAGTGGGTGG
1776	1786	1796	1806	1816	1826	1836
TTTGCGAGGA	TGAGGGACGC	TATGCCTCAT	GCCCGTTTTG	GGTGTCCTCA	CCAGCAAGGC	TGCTCGGGGG
154	. 105/		107/		100/	4004
1846	1856			1886 AGTTTTTTT	1896	1906
CCCC16611C	5 / CCC / GAGE	CITITICACA	G I GCA I NAGC		Gilligii	TO DETECTION OF
1916	1926	1936	1946	1956	1966	. 1976
TGTTTTTAAA	TCAATCATGT	TACACTAATA	GAAACTTGGC	ACTCCTGTGC	сстствсств	GACAAGCACA
1986	1996	2006	2016	2026	2036	2046
TAGCAAGCTG	·			CAATGGGGCC		GCTGTGGACT
. 2056						•
TTTGTACATA	CACTAAAATT	CIGAAGIIAA	AGCICAAAAA	HA ·	•	

GA ATT CCA CAA CGG TTT CCC TCT AGA AAT AAT TTT GTT TAA CTT TAA GAA GGA GAT ATA CAT

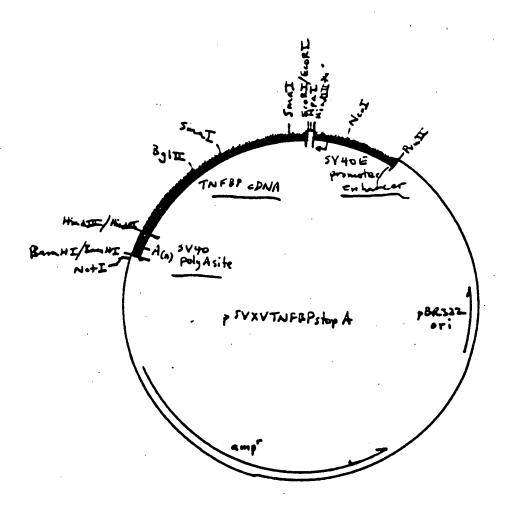
Start gene 10 protein sequence ATG GCT AGC ATG ACT GGT GGA CAG CAA ATG GGT ACG GAT CCG ATC TTG GAG GAT GAT TAA ATG GCT AGC ATG ACT GGT GGA CAG CAA ATG GGT ACG GAT CCG ATC TTG GAG GAT GAT TAA Met Ala Ser Met Thr Gly Gly Gln Gln Met Gly Thr Asp Pro Ile Leu Glu Asp Asp Stop Translational coupler

ATG GAC AGC GTT TGC CCC Met Asp Ser Val Cys Pro Start TNF inhibitor Sequence

Fig. 23



\* indicates restriction site no longer exists.



\* - restriction site no longer exists:

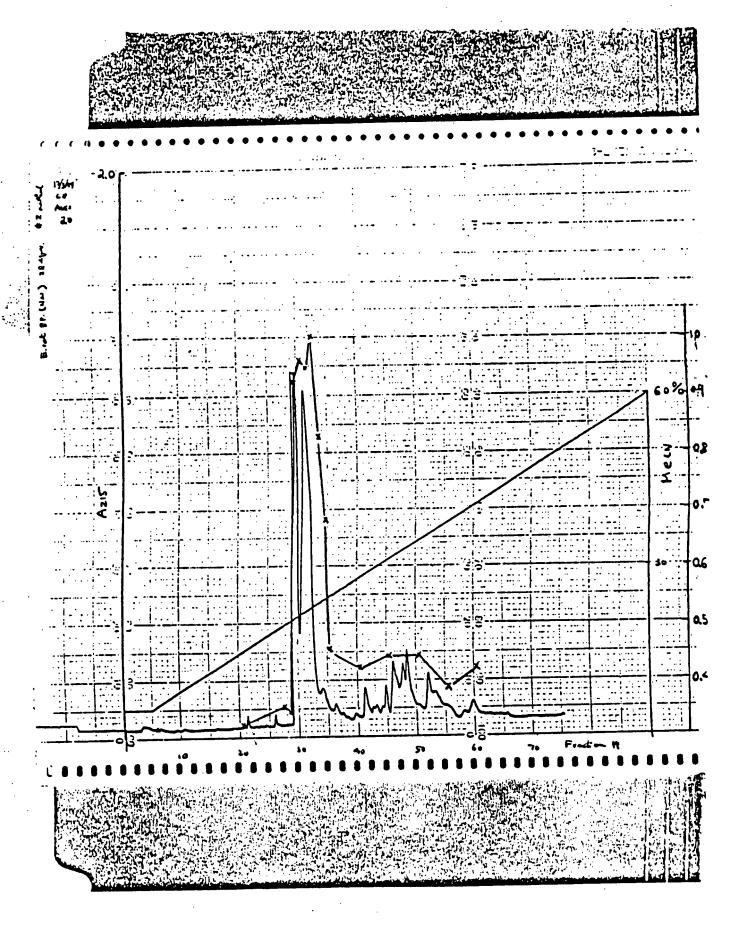
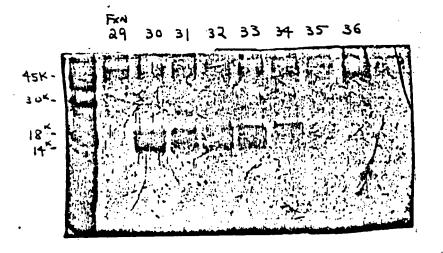


Figure 25



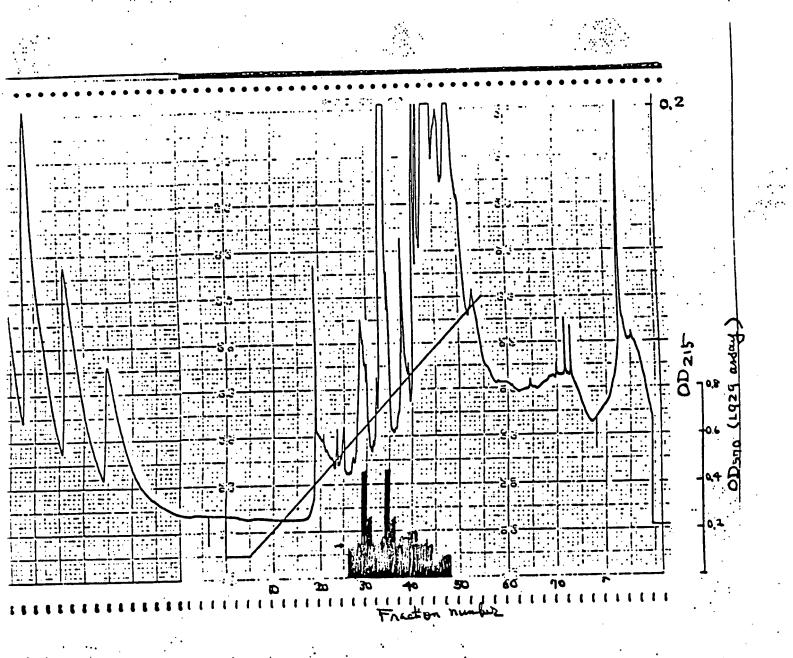
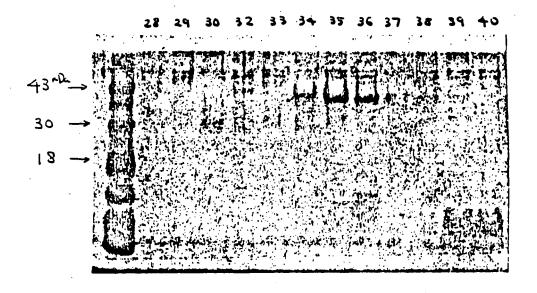


Fig. 27



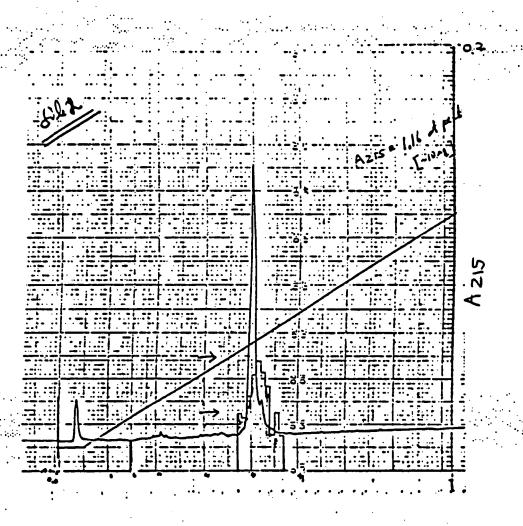
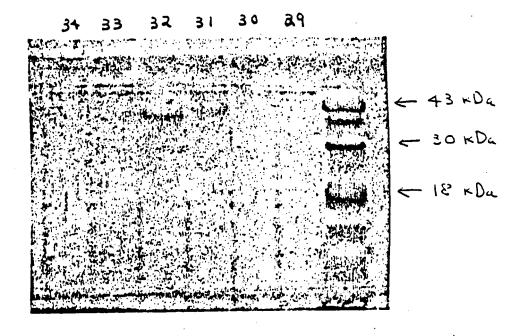


Fig. 29



F16.31

U937-derived TNF-INH1 (30 kDa)

U939-derived TNF-INH2 (40 kDa)

Leu-Pro-Ala-Gln-Val-Ala-Phe-Thr-Pro-Tyr-Ala-Pro-Glu-Pro-Gly-Ser-Thr-Cys-Arg-Leu-Arg-Glu-Tyr-Tyr-Asp-Gln-Thr-Ala-Gln-Met-Cys-Cys-Ser-Lys-Cys-

Urine-derived INF-INH2 (40 kDa)

Ala-Gln-Val-Ala-Phe-Thr-Pro-Tyr-Ala-Pro-Glu-Pro-Gly-Ser-Thr-)-G1n )-ren-(

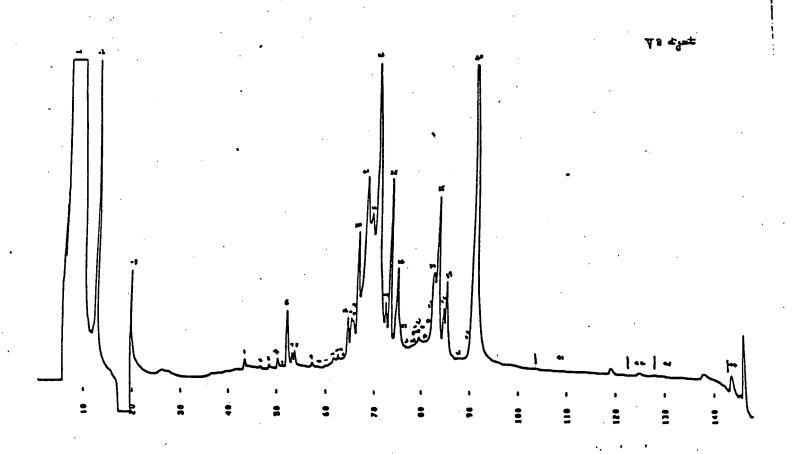
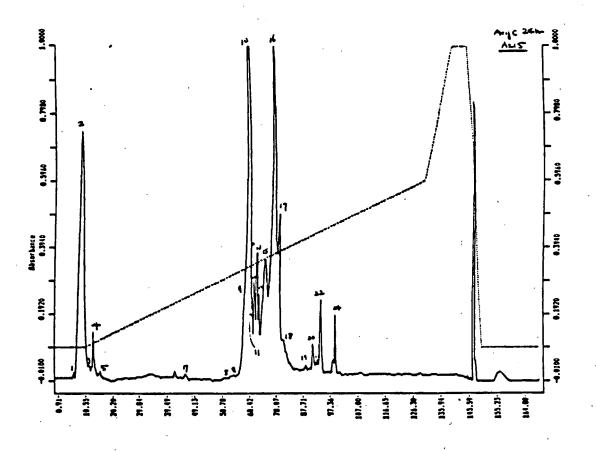
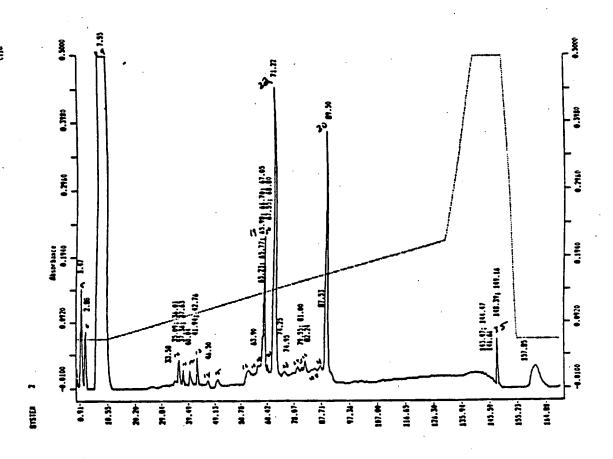


Figure 32



.: .. ...

Figure 33



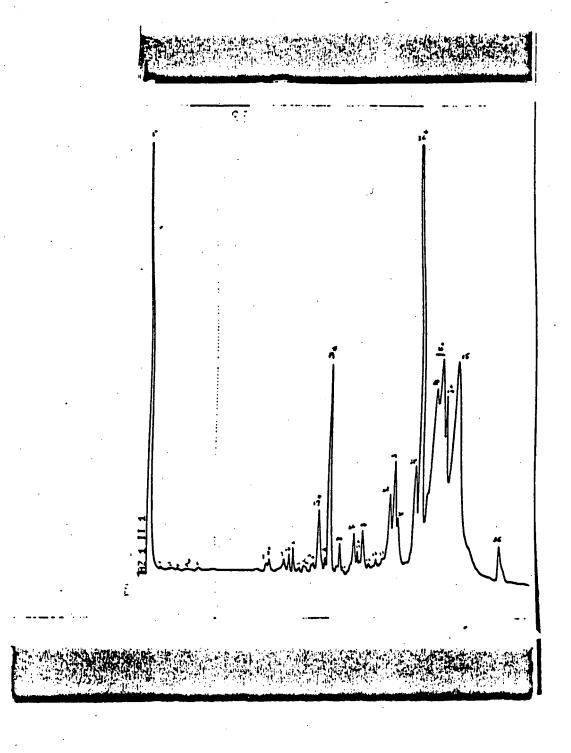
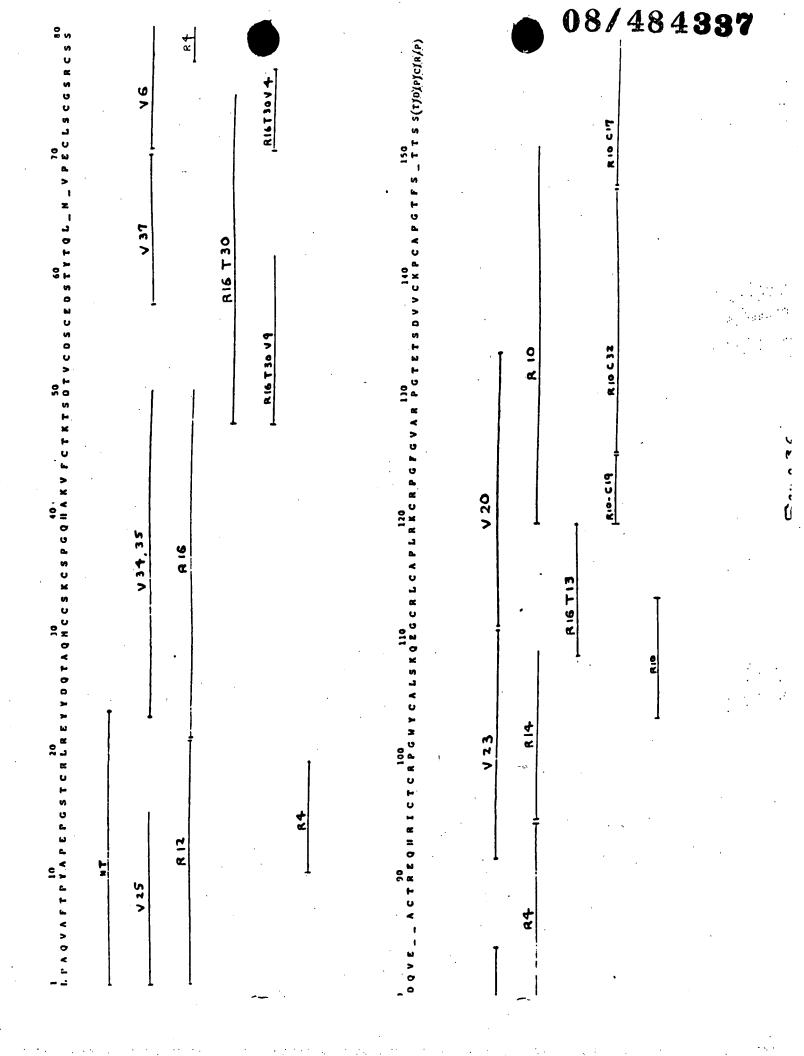


Figure 35



5'- CCG

<b>5</b>			64			73			62			91			100		
GAG G	ccc ro	GC3 Bly	AGC Ser	ACA	TGC Cys	CGG Arg	CTC Leu	AGA Arg	GAA Glu	TAC Tyr	TAT Tyr	GAC Asp	CAS	ACR Thr	GCW	CAR G10	ATG MET
109			113			127			136			145			154		
TGC T	rgc Lys	AGC Ser	F\4	TāC Cys	TCG Ser	CCS Pro	GUC	CAA Gln	CAT His	GCA Ala	AAA Lys	GTC Val	TTC	TGT	ACC Thr	HAG Lys	ACC Thr
143			172			181			190			199			208		
TOS 6	JAE Ose4	ACC Thr	GTS GTS	TGT Cy's	5AC A3p	TCC Ser	TGT Cys	640 61u	GAC Asp	AGC Sur	HCA The	TAC Tyr	ACC Thr	C:4G GIn	CTC Leu	TGG Trp	AAC Aan
217			226			235			24+			253		•	262	•	
TGG C	STT /al	CCC Fra	GAG Glu	TGC Cys	TTG Leu	AGC Ser	TGT	GGC Gly	TCC Ser	CGC Arg	TGT	AGC Ser	TCT Ser	GAC Asp	EAG 61n	GTG Val	GAA Glu
271			280			289			298			307		:.	319		•
ACT C	AA i	GCC Ala	TGC	ACT Thr	CGG Arg	GAA Glu	CAG Gln	AAC Asn	<u>CGC</u> Arg	ATC Ile	TGC Cys	ACC Thr	TGC Cys	AGG Arg	CCC Pro	BIY GGC	TGG Trp

TAY TGC -3

Leu Pro Ala Gln Val Ala Phe Thr Pro Tyr Ala Pro Glu Pro Gly Ser Thr Cys Arg Leu Arg Glu Tyr Tyr Asp Gln Thr Ala Gln MET Cys Cys Ser Lys Cys Ser Pro Gly Gln His Ala Lys Val Phe Cys Thr Lys Thr Ser Asp Thr Val Cys Asp Ser Cys Glu Asp Ser Thr Tyr Thr Gln Leu Trp Asn Trp Val Pro Glu Cys Leu Ser Cys Gly Ser Arg Cys Ser Ser Asp Gln Val Glu Thr Gln Ala Cys Thr Arg Glu Gln Asn Arg Ile Cys Thr Cys Arg Pro Gly Trp Tyr Cys Ala Leu Ser Lys Gln Glu Gly Cys Arg Leu Cys Ala Pro Leu Arg Lys Cys Arg Pro Gly Phe Gly Val Ala Arg Pro Gly Thr Glu Thr Ser Asp Val Val Cys Lys Pro Cys Ala Pro Gly Thr Phe Ser Asn Thr Thr Ser Ser Thr Asp Ile Cys Arg Pro His Gln Ile Cys Asn Val Val Ala Ile Pro Gly Asn Ala Ser Arg Asp Ala Val Cys Thr Ser Thr Ser Pro Thr Arg Ser MET Ala Pro Gly Ala Val His Leu Pro Gln Pro Val Ser Thr Arg Ser Gln His Thr Gln Pro Thr Pro Glu Pro Ser Thr Ala Pro Ser Thr Ser Phe Leu Leu Pro MET Gly Pro Ser Pro Pro Ala Glu Gly Ser Thr Gly Asp

CGGCG CAGCGGR

TOUAGAGAAG GCGCTBGGCT GCGAGGGCGC GAGGGGAAAA GGGCAGGGGG

		60			90			10	1		11	ú		11	9		
CAA	ccgg	ACC	ccec	2622	ÁC C						C GT						
128	ı		137	,		146		<b>a</b> ri	155			164		- ~.	173	u n	•
GTC	GGA	CTG	GAG	CTC Leu	TUG	GCT	GCG	GCG	CAC	GCC	776 (Leu	ccc	GCC	CAG	GTG	GCA Ala	TTT Phe
182	:		191			200	,		204		_	218	ļ.		227		
											CGG Arg						
234			245	<b>,</b>		254			263			272			281		
											CCB Pro						
290			299			308			317			326			335		
											TCC						
344			353			362			371			280		•	389		
ACC	GAG G1n	CTC Leu	TOG	AGO	TOG	VAL	Pro	GAG	TOC Cys	TTG	AGC Ser	TGT Cys	GIA	TCC	CGC Are	TGT	AGC
398			407			416			425			434			443		
8or			Val			91v			The		GAA	Bln			110		
482	<del>255</del>	===	441	<del></del>		470	500	<del>220</del>	479	A 0.0		488	<del></del> -	<del></del>	497		===
Cys	Acg	Pro	GIA	Trp	Tyr	Cys	Ala	Leu	Ser	Lys	CAG	Glu	GIA	Cys.	Arg	Leu	Cys
506			212		===	524	===		223		===	542	7.57	===	221		===
											GTG						
560			569			378	•		587			596		•	605		
											GGG Gly						
614			623			925			641			450			659		
											TGT Cys	Asn	Val	Val	Ala		
668			677			686			695				451		413		
BIA	AAT	GCA Ala	Ser	AGG	GAT	Ala	GTC Val	TGC	The	TCC Ber	ACB Thr	TCC	Pro	Thr	Arg	AGT Ber	ATG MET
722			731			740			749	4-44		758			767 ——		
Ala	CCA Pro	gua Gly.	Ale	GTA Val	HTP	Leu	Pro	G1n	Pro	GTG Val	TCC Ser	Thr	CBA Arg	TCC Ser	gin	HIE	ACU Thr
776		•	785			794			803			812	<u></u>		821		
Gln	Pro	ACT The	Pro	GAA Glu	CCC Pro	Ber	ACT Thr	GCT AL#	Pro	Ser	ACC	Ser	TTC Phs	Leu	Leu	Pro	ATG MET
830 			β39			848.			857		المجات و راه				<u> </u>		
GIA	CCC Pro	agc <b>8e</b> r	Pra	Pro	GCT Ala	Glu	GIY	AGC Ser	Thr	G17 GCC	GAC Amp	Phe	Ala	Leu	Pro	VAL	Giy Giy
884			893			902			911			920			929		
Lou	ATT Ile	O PO	GGT G1y	019 V41	ACA Thr	BCC Ala	TTG Lau	GGT	CTA L <b>a</b> u	CTA L <b>e</b> u	ATA Il-	ATA Ile	gga G1y	GTO Val	GTG Val	AAC Asn	TGT Cys
938			947			956	-		965		,	974			983		
Val	ATC	MET	Thr	CAG Gln	VAL	Lys "	AAG Lys	Lys	Pro	TTG	TGC	Leu	CAG Gln	Arg	GIu	Ala	AAG Lye
992			001		" 1	010			019			.02B					
GTG CAL	CCT Pro	CAC	TTG	CCT Pro	AL.	GAT Ap	AAO Lys	Ala	GBB Arg	GGT Gly	ACA Thr	CAG <b>SIn</b>	614 614	Pro	GAG G) u	GIA	CAS G I n

Fyure 39

		44/4		- 4				-										
		2178							,	•			2219					
AC	CCCG	2108 ATTT	AAA	ב דמוים	TŢŖ	тстс	CCAA	AT G	BOAA	TATA	A GA					CAC	AAAG	BGAGAT
													2148					2168
CC																		GTGCCC
	,	2ú38																2098
g <sub>A</sub>	CAGT	3CTT	CAG	CTG	AGO	CTBA	3ACT(	3C 8	GGAT	SGTC	C TG	36 <b>6</b> C	TCTO	TGC	AGGG	AGG	AGGT	GGCAGC
	1	1968		19	978		196	88		1996	3		2008		2	<b>018</b>		2028
CC																		AGACAG
		.878																1958
110																		SAAAAC
																	•	
TCC	. •		tera			cccc			TGCA			.GCC1	680	TTG1	CABO	SCC I	CTTGG	SUTTIT
		758			<b>.68</b>		177			1789			.798			306		1878
CTO		600	ATGG		98 16 (	cter	-		SCTEE					TCO			CTGGG	GCAAG
.,-								18		1718			.728			738		1748
AGT		.618	ACAG	_		erce			CTGC					GGCA	eco:	GT	TGTGG	BAAAGC
					28		163			1648			658			666		1478
CGA		.548 :GCC	CT GG			CABBC			CACTA			GAGE	CTC	TTTC	7000	ice i	AAGT1	CCTCT
•			•		56			8		1579			.588			98		1608
1478 	CCA	_	-	ercc	-		CGTA						CTGG	CAG	GATE	ACC	ETG	
Thr	Glu	Blu	Ly5 488	Pre	Lau	. Pro .98	· Lau	150	AT	PFO	A=p 1518	HIE	3.7	MET 528	-y=		538 538	
1424 7CC			1433 BAG	ccc	0:50	1442 CCC	<del></del>	000	GTG	CCT	GAT	GCT	GUG	ATG	AAG	CCC	AGT	,
Glu	Glu	Cys	A1.	Phe	Arg	Ser	Gln	Leu	G1u 1451	The	Pro	01u 1460	ınr	Lau	Leu 1469	,	Ser	
1370		===	1379 GCC	<del>777</del>	EGG	1398 TCA	CAG	FTG	1397 GAG	ĀCG	CCA	406 <u>Gag</u>	ACC	CTG	CTG	GGØ	AGC	
ACA Thr	GAT Asp	TCC Ser	agc Bur	Pro	Ber	Glu	Ser	Pro	Lys	Asp	GIU	MYU	VAI		F118	Ser	Lys	
1316	GAT		1325 725	:==		1334 555	<del></del>		1343	<u> </u>		352 <u>746</u>	GTC		1361 277	TCC	AAG	
AGC Sor	TOT Sec	GAC	CAC	AGC Ser	TCA Ser	Gin	TGC	TCC Ser	TCC Ser	Gln	Ala	ser Ser	Ber	) (H		61 A	Asp	
1262			1271	_		1280			1269	<b></b> -		298	765		1307 <u>ATA</u>	664	GAC	
CCT Pro	GGT	GI A GCC	CAT	GGG	ACC Thr	Gln	GTC Val	AAT Asn	GTC Val	ACC	TGC Cys	ATC	Val	ASA	Val	Cys	Ser	
1208			1217			1226			1522	<b>1</b> 2-2	_	244	•		: -	 TOT	ARE	
GAG	GCC Ala	AGT Ser	61 y	GCC Ala	GIY	Glu	GCC Ale	CGG. Arg	Ala	agc Bur	Thr	Gly	8er	Ser	Asp	Ser	Ser	
1154			1192			1172			1181			190			199	<del></del>	<del>TCC</del>	
AGT	OCG Ala	TTG Leu	GAC Asp	AGA Arg	AGG Arg	GCG Ale	ccc Pro	ACT Thr	CGG Arg	AAC Asn	CAG Bln	CCA Pro	GIO	GCA Ala	CCA Pro	G1A GOC	GTG Vel	
1100			109			1118			1127			136			145			
CAC	C16 Leu	CTS Leu	ATC 11=	ACA	GCG Ala	CCO Pro	AGC Ser	TCC Ber	AGC Ser	AGC Ser	AGC Ser	TCC	CTG Lau	GA <b>G</b> Glu	AGC Bur	TCG Ber	GCC Ala	

Tyme 39 cont

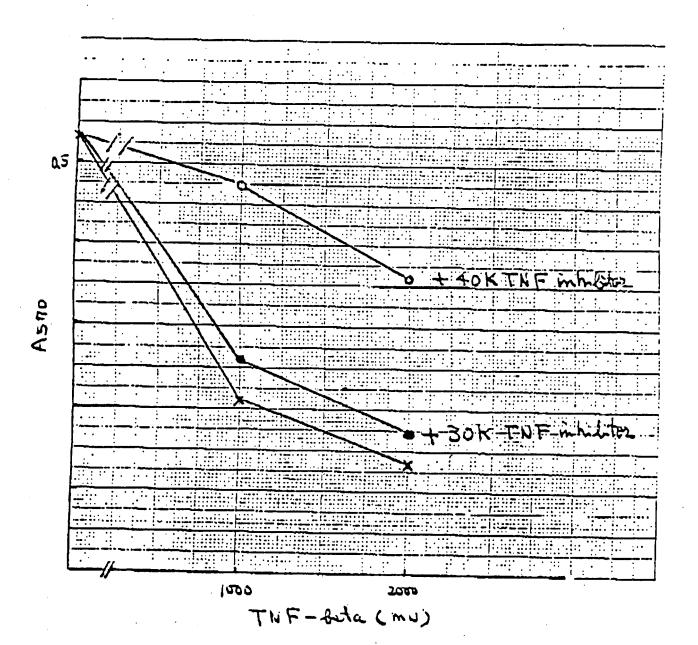
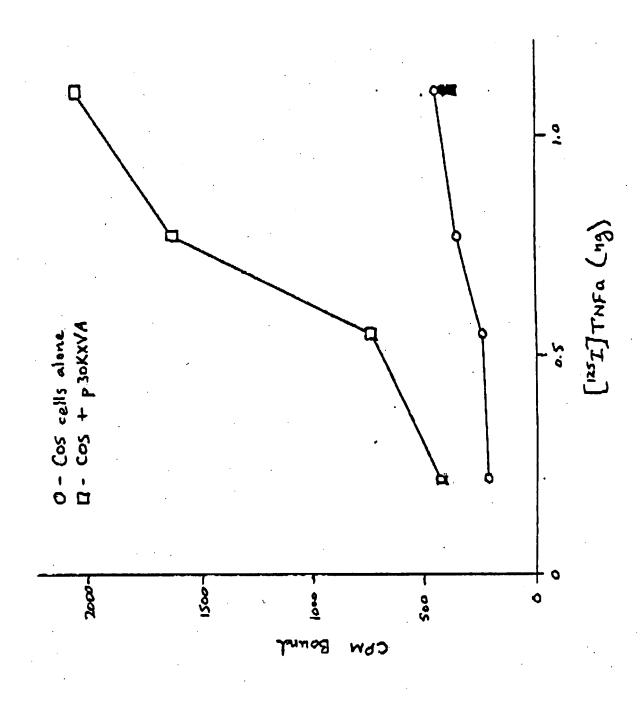
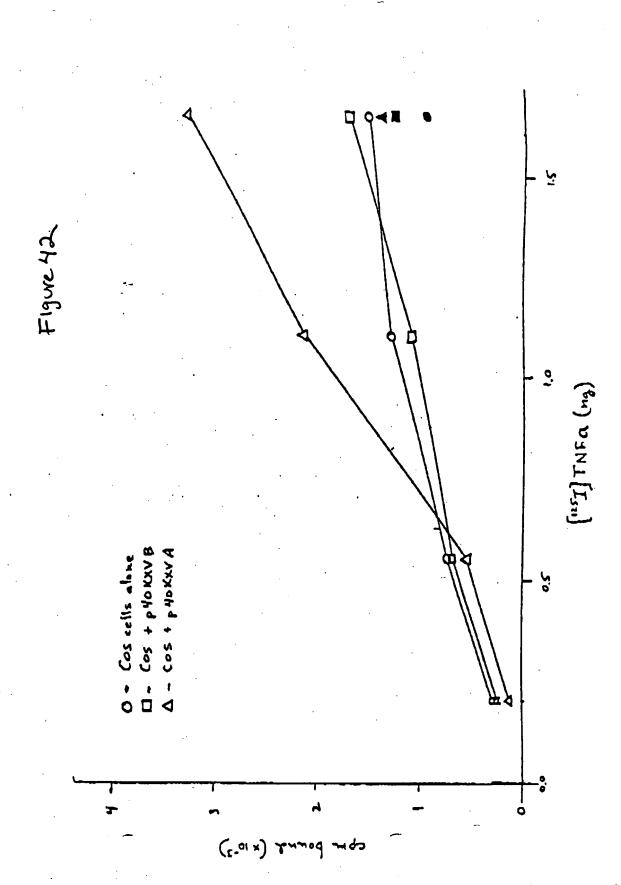
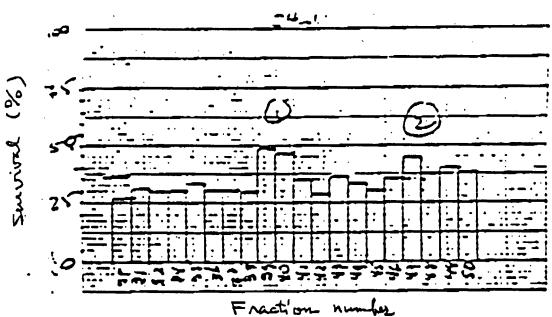


Figure 40







F16 44

